

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A device for transporting biological fluid in at least a part of an extracorporeal circuit, said at least part of the extracorporeal circuit being disposable and comprising:

at least one pressure sensor configured to be in fluid communication with the biological fluid ~~during use, characterized in that, the at least one pressure sensor comprising an electric circuit that is configured to be energized by an applied alternating first electromagnetic field and configured to communicate information indicative of a pressure from the pressure sensor via a second alternating electromagnetic field,~~
~~wherein the at least one pressure sensor is configured for sensing a difference between a pressure of the biological fluid and a reference pressure and comprising an electric circuit that is configured to be energized by an applied alternating first electromagnetic field and configured to communicate information indicative of a pressure from the pressure sensor via a second alternating electromagnetic field.~~

2. (Currently Amended) ~~[[A]] The device according to of claim 1, where~~
~~wherein the sensor comprises a compressible container[[,] capable of indicating~~
~~pressure through the compression or expansion of which is indicative of the pressure.~~

3. (Currently Amended) [[A]] The device according to of claim 2, where
wherein the pressure sensor further comprises at least one component chosen from a
components in the form of a capacitance capacitor and an inductor inductance, said
component forming a resonance circuit for the applied alternating electromagnetic field,
wherein said component of which components at least one is a variable component
which is configured to vary varies with the compression and/or and/or expansion of the
container, said capacitance and inductance forming a resonance circuit for the applied
alternating electromagnetic field.

4. (Currently Amended) [[A]] The device according to of claim 3,
wherein the component is a capacitor capacitance is variable.

5. (Currently Amended) [[A]] The device of claim 2 according to any of
claims 2 to 4, wherein the container has the form of includes a substantially rigid box
with having a membrane on one side.

6. (Currently Amended) [[A]] The device of claim 5 according to any of
claims 3 to 5, wherein a part portion of the variable component is arranged on the
membrane.

7. (Currently Amended) [[A]] The device of claim 6 according to any of
claims 3 to 6, wherein a portion of part of the variable component is configured to vary
varies with [[the]] a movement of the membrane.

8. (Currently Amended) [[A]] The device of claim 7 according to any of
claims 3 to 7, wherein a part portion of the variable component is formed from or by the
membrane.

9. (Currently Amended) [[A]] The device of claim 3 according to any of
claims 3 to 8, wherein an the device is configured by way of its resonance frequency to
be indicative of the intended use of the device may be indicated by a specific resonance
frequency.

10. (Currently Amended) [[A]] The device of claim 1 according to any
one of the preceding claims, wherein the pressure sensor is arranged disposed within
the device.

11. (Currently Amended) [[A]] The device of claim 1 according to any
one of the preceding claims, wherein the first and second alternating electromagnetic
fields are one and the same electromagnetic field.

12. (Currently Amended) [[A]] The device of claim 1 according to any
one of the preceding claims, wherein the first and second alternating electromagnetic
fields are in the include a radio frequency range.

13. (Currently Amended) [[A]] The device of claim 1 according to any one of the preceding claims, wherein the pressure sensor is connected to the extracorporeal circuit such that it forms a portion of the circuit.

14. (Currently Amended) [[A]] The device of claim 1 according to any one of the preceding claims, wherein the device is insert molded.

15. (Currently Amended) [[A]] The device of claim 1 according to any one of claims 1 to 13, wherein the sensor is glued or welded to a wall of the extracorporeal circuit and thereby in a manner that establishes a seal between the sensor and the circuit.

16. (Currently Amended) [[A]] The device of claim 1 according to any one of the preceding claims, wherein at least a part of the extracorporeal circuit is configured for at least one application chosen from dialysis, blood separation, blood donation, hemofiltration, and [[or]] cardiopulmonary bypass.

17. (Currently Amended) [[A]] The device of claim 1 according to any one of the preceding claims, wherein at least a part of the extracorporeal circuit is selected from the group comprising chosen from a dialyser, cassette, ultrafilter, tube, connector, container, chamber, fluid bag, blood container, collection bags, pump segment part of lineset, and oxygenator.

18. (Currently Amended) [[A]] The device of claim 1 according to any one of the preceding claims, wherein the reference pressure includes is an atmospheric pressure.

19. (Currently Amended) The device of claim 1, wherein the device is used Use of a device according to any one of the preceding claims during extracorporeal biological fluid management.

20. (Currently Amended) Use according to The device of claim 19, wherein the fluid is blood.

21. (Currently Amended) Use according to claim 19 or 20 The device of claim 19, wherein the management is dialysis.

22. (Currently Amended) A system for managing biological fluids, comprising:

a device according to any of claims 1 to 18,

the device of claim 1;

at least one transmitter configured to transmit an alternating electromagnetic field to at least one the sensor in the device;[[,-]]

at least one receiver configured to receive radio frequency information from the device, wherein the received information is indicative of at least one a pressure sensed by the device;[[,]] and[[,-]]

a control unit configured to control the transmitter and the receiver.

23. (Currently Amended) ~~[[A]] The system according to of claim 22,~~
wherein the ~~at least one~~ sensor is located in close proximity to the at least one
transmitter and the at least one receiver.

24. (Currently Amended) ~~[[A]] The system according to of claim 22 or 23,~~
wherein the system forms part of a dialysis machine.

25. (Currently Amended) ~~Use of a The system of claim 22, wherein the~~
~~system is according to any of claims 22 to 24 used~~ during extracorporeal biological fluid
management.

26. (Currently Amended) ~~Use according to The system of claim 25,~~
wherein the fluid is blood.

27. (Currently Amended) ~~The system of Use according to claim 25 or 26,~~
wherein the management is dialysis.

28. (Currently Amended) A method of pressure sensing in a biological
fluid using ~~[[a]] the system according to any of claims of 22 to 24,~~ comprising the steps:
[[-]] providing at least one alternating electromagnetic field;[[, -]]

sensing the at least one alternating electromagnetic field as modified by a pressure sensor configured to affect [[the]] a field in dependence on [[a]] pressure[[.]]; and [[-]]

providing the sensed field as a signal that is indicative of the pressure sensed by the sensor.